

REMARKS

Claims 2-19 and 21-31 are pending.

Applicants respectfully request entry of the amendments to the claims filed March 27, 2008 and reconsideration of the remarks set forth therein. Applicants also request the Examiner to consider the following additional remarks in support of the patentability of the present claims.

In the Advisory Action, the Examiner indicated that Applicants have not shown the basis for their calculation that the Ag / binder volume ratio of Takaoka is 1/4.49. Upon further review, Applicants have realized that the ratio (1/4.49) is incorrect. The actual Ag / binder volume ratio of Takaoka is 1/6 and the correct calculation is as follows:

- (1) Convert AgCl / binder weight ratio to Ag / binder weight ratio:

Molecular weight of AgCl is 143.32

Atomic weight of Ag is 107.868

$$(70 \times (\text{atomic weight of Ag} / \text{molecular weight of AgCl})) / 30$$

$$(70 \times (107.868 / 143.32)) / 30 = 52.8 / 30$$

- (2) Convert Ag / binder weight ratio to Ag / binder volume ratio:

Specific gravity of Ag is 10.5 g/cm³

Specific gravity of binder is approximately 1 g/cm³

$$52.8 / (\text{specific gravity of Ag}) = \text{amount of Ag by volume}$$

$$30 / (\text{specific gravity of binder}) = \text{amount of binder by volume}$$

$$(52.8 / 10.5 \text{ g/cm}^3) / (30 / 1 \text{ g/cm}^3) = 5.02 / 30$$

Accordingly, it is clear that the correct Ag / binder volume ratio of Takaoka is 1/6.

Thus, the cited references do not disclose the recited Ag / binder volume ratio of 1/4 or higher, and the references fail to provide any reason for one of ordinary skill in the art to increase the amount of silver relative to the amount of binder beyond the amount embodied in the examples of Takaoka. Indeed, the references provide no teaching whatsoever regarding an appropriate Ag / binder volume ratio, let alone a Ag / binder volume ratio suitable for mass producing at low cost a light-transmitting electromagnetic wave-shielding material that simultaneously has a high EMI-shielding property and a high transparency in a fine pattern.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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